



Energy and Innovation Conference – September 2013

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COO**

plextronics®

PLEXTRONICS SNAPSHOT

Our Vision

Plextronics' technology and products will be essential to the continued evolution of electronics that empower people and enrich their lives

Business Overview

- Plextronics is a leader in the research, development and commercialization of conductive and semi-conductive polymers and ink formulations, enabling the commercialization of printed electronic devices

Products & Intellectual Property

- Commercializes IP intensive, conductive polymer platforms and customized ink systems under the Plexcore® brand
- Controls over 240 patents - filed and pending

An Established Leader

- Founded 2002 / Carnegie Mellon University spinout / Pittsburgh based
- Employs 60 people, approximately 1/3 are PhD's
- Investors include Solvay, Samsung, and Universal Display Corporation

PLEXTRONICS - DISRUPTIVE MATERIALS FOR MULTIPLE MARKETS

People

Critical mass of cross-discipline experts

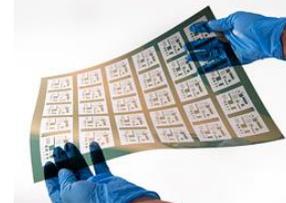
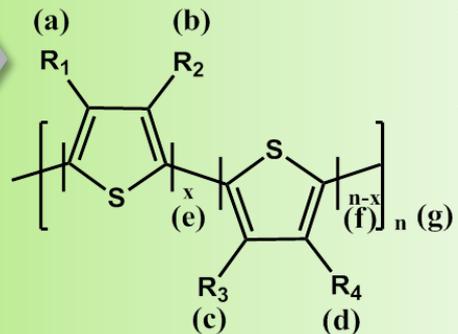
IP

Patents, product by process and know-how

Material Science Approach

Tools and capabilities

Platform Technology
Broad and versatile



THE FOCUS OF OUR INKS & POLYMERS – TODAY AND FUTURE

Plexcore® Products

Printed
Inks



Conductive
Polymers

Growing Markets



OLED TV



Li-ion
Batteries

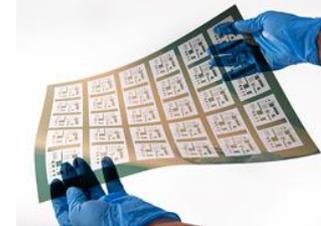
Future Markets



OLED Lighting



Polymer Capacitors



Medical & Bio
Sensors

Business Model: Develop and manufacture high-performance inks & conductive polymers

MULTIPLE ENORMOUS MARKETS

- The first two markets Plextronics is addressing represent large opportunities
 - OLEDs for flat panel displays
 - Energy storage devices such as Lithium-ion batteries with an initial focus on high discharge
- These markets will be driven by the solution processing of OLEDs for large area devices such as TVs and the need for technologies that expand the market applications for Lithium-ion batteries through higher energy density



(a) OLED market in 2018 according to DisplaySearch, 2013.

(b) Lithium-ion battery market in 2016 according to Frost & Sullivan, 2013.

DISPLAYS AND LIGHTING DEVICES OF FUTURE WILL BE THIN, ENERGY EFFICIENT...AND PRINTED USING ADDITIVE MANUFACTURING

